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**HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW**  
**KARYA ILMIAH : JURNAL ILMIAH C 3**

Judul Publikasi : Selective Transport of Fe(III) Using Polycugenol as Functional Polymer with Ionic Imprinted Polymer Membrane Methode

Jumlah Penulis : 4 orang

Status Pengusul : penulis pertama/utama

Identitas Jurnal a. Nama : Asian Journal of Chemistry, (Jurnal Ilmiah: Jurnal Ilmiah: b. Nomor ISBN : ISSN: 0975-427X (Online) /ISSN: ISSN: 0970-7077 (Print) c. Volume: Volume 27 (12) (2015) Desember 2015 Nomor, Bulan, Tahun d. Penerbit : Asian Publication Corporation e. DOI artikel : [http://www.asianjournalofchemistry.co.in/User/ViewFreeArticle.aspx?ArticleID=27\\_12\\_44](http://www.asianjournalofchemistry.co.in/User/ViewFreeArticle.aspx?ArticleID=27_12_44) f. Alamat web : <http://www.asianjournalofchemistry.co.in/Home.aspx> g. Terindeks di SCOPUS (category : Q4), PROQUEST, EBSCO host, CNKI and many others indexing and abstracting bodies. e. Jumlah Halaman 10 (4553-4562)

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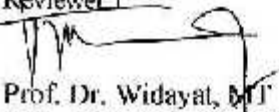
1. <u>Kesesuaian dan kelengkapan unsur isi jurnal:</u>	: Isi dari jurnal meliputi Abstract, Introduction, Experimental, Results and Discussion, Conclusions serta Reference. Artikel yang ditulis sudah meliputi akan hal tersebut. Penulisan daftar pustaka dimana judul tidak ada (skor= 3,5 ).
2. <u>Ruang lingkup dan kedalaman pembahasan:</u>	: Fokus dan Scope dari jurnal adalah all branches of chemistry and its sub-disciplines like Pharmaceutical, Biological activities of Synthetic Drugs, Environmental Chemistry, Biochemistry, Polymer Chemistry, Petroleum Chemistry, and Agricultural Chemistry, etc. Artikel tentang material membran dan uji dalam proses adsorpsi logam berat Fe. Tema ini masih termasuk dalam scope jurnal. Pembahasan sebagian masih berbentuk diskripsi sebagian sudah membahas secara mendalam dan menyakan perbandingan, bahkan yang seharusnya masuk Procedure percobaan serta ada juga di dalam diskusi. (skor= 10,0 ).
3. <u>Kecukupan dan kemutakhiran data/informasi dan metodologi</u>	: Literatur yang digunakan terbaru adalah tahun 2014. Untuk poly eugenol masih berasal dari penulis sendiri. Data yang disajikan cukup banyak analisis dari kualitatif dan kuantitatif (skor= 11,0 ).

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Semarang,  
Reviewer I

4/6/18  
  
Prof. Dr. Widayat, MT  
NIP. 19720906 199803 1001

**LEMBAR**  
**HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW**  
**KARYA ILMIAH: JURNAL ILMIAH C 3**

Judul Publikasi Ilmiah (Artikel) : Selective Transport of Fe(III) Using Poly Eugenol as Functional Polymer with Ionic Imprinted Polymer Membrane Methode

Jumlah Penulis : 4 orang

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Pengusul

Identitas Jurnal Ilmiah

a. Nama Jurnal Ilmiah : Asian Journal of Chemistry

b. Nomor ISBN /ISSN : 0975-427X (Online), ISSN: 0970-7077 (Print)

c. Volume, Nomor, Bulan, Tahun : Volume 27 (12) (2015) Desember 2015

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a. Kelengkapan unsur isi jurnal (10%)	4			4
b. Ruang lingkup dan kedalaman pembahasan (30%)	12			9,5
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	12			9
d. Kelengkapan unsur dan kualitas penerbit (30%)	12			10
Total = (100 %)	40			32,5
Nilai Pengusul =	$0,6 \times 32,5$			19,5

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2. Ruang lingkup dan kedalaman pembahasan:	: Artikel ini menyajikan hasil penelitian mengenai sintesis membrane eugenol diterapkan dlm proses pemisahan logam berat Fe (3+) sehingga masih dalam lingkup jurnal. Tidak dijelaskan tujuan penulisannya sehingga tidak bisa diambil kesimpulan yang tepat. Hasil penelitian dibahas kurang mendalam walaupun didukung dg pustaka yang baik. Tetapi terdapat kecenderungan untuk hanya mengulangi hal-hal yang muncul di prosedur percobaan (skor = 9,5).
3. Kecukupan dan kemutakhiran data/informasi dan metodologi	: Pustaka yang digunakan pada umumnya cukup mutakhir, hanya beberapa yang tua (ada 5 dari 25 pustaka). Pustaka yang digunakan dalam pembahasan kurang dari 50% (hanya 9 dari 25 pustaka). Bahkan pada metodologi justru tidak mendasarkan pada pustaka sama sekali (skor = 9).
4. Kelengkapan unsur dan kualitas terbitan:	: Jurnal Asian J. Chem. tergolong dalam Q4 Scopus dan h-index 29 dg SIIK cenderung menurun ketika artikel ini terbit. Penggunaan Bahasa Inggris dlm jurnal ini kurang begitu baik. Jurnal diterbitkan oleh Chemie Publishing Co. India dg Editor berasal dari lebih dari 8 negara. Penulis berasal dari berbagai negara. Terdapat 15-40 artikel untuk sekali terbitan (12 kali terbit dlm setahun). Proses review [1 bln] sangat cepat (skor = 10).

Samarang,  
 Reviewer 2

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AIP Conference Proceedings

Volume 1699, 29 December 2015, Article number 060001

2nd International Conference of Chemical and Material Engineering: Green Technology for Sustainable Chemical Products and Processes, ICCME 2015; Semarang; Indonesia; 29 September 2015 through 30 September 2015; Code 117825

## Selective transport of Fe(III) using ionic imprinted polymer (IIP) membrane particle (Conference Paper)

Djunaidi, M.C.<sup>a,b</sup> ✉, Jumina<sup>b</sup>, Siswanta, D.<sup>b</sup>, Ulbricht, M.<sup>c</sup> 👤

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<sup>a</sup>Department of Chemistry, Faculty of Science and Mathematics, Diponegoro University, Indonesia

<sup>b</sup>Department of Chemistry, Faculty of Mathematics and Natural Sciences, Gadjah Mada University, Indonesia

<sup>c</sup>Lehrstuhl für Technische Chemie II, Fakultät für Chemie, Universität Duisburg-Essen, Essen, 45117, Germany

### Abstract

The membrane particles was prepared from polyvinyl alcohol (PVA) and polymer IIP with weight ratios of 1: 2 and 1: 1 using different adsorbent templates and casting thickness. The permeability of membrane towards Fe(III) and also mechanism of transport were studied. The selectivity of the membrane for Fe(III) was studied by performing adsorption experiments also with Cr(III) separately. In this study, the preparation of Ionic Imprinted Polymer (IIP) membrane particles for selective transport of Fe (III) had been done using polyeugenol as functional polymer. Polyeugenol was then imprinted with Fe (III) and then crosslinked with PEGDE under alkaline condition to produce polyeugenol-Fe-PEGDE polymer aggregates. The aggregates was then crushed and sieved using mesh size of 80 and the powder was then used to prepare the membrane particles by mixing it with PVA (Mr 125,000) solution in 1-Methyl-2-pyrrolidone (NMP) solvent. The membrane was obtained after casting at a speed of 25?m/s and soaking in NaOH solution overnight. The membrane sheet was then cut and Fe(III) was removed by acid to produce IIP membrane particles. Analysis of the membrane and its constituent was done by XRD, SEM and size selectivity test. Experimental results showed the transport of Fe(III) was faster with the decrease of membrane thickness, while the higher concentration of template ion correlates with higher Fe(III) being transported. However, the transport of Fe(III) was slower for higher concentration of PVA in the membrane. IImparticles works through retarded permeation mechanism, where Fe(III) was bind to the active side of IIP. The active side of IIP membrane was dominated by the -OH groups. The selectivity of all IIP membranes was confirmed as they were all unable to transport Cr (III), while NIP (Non-imprinted Polymer) membrane was able transport Cr (III). © 2015 AIP Publishing LLC.

### SciVal Topic Prominence ⓘ

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:IIP Membrane particle functional polymer polyeugenol selective transport of Fe.

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Publisher	Chemic Publishing Co.
Publication type	Journals
ISSN	09707077
Coverage	1996-ongoing

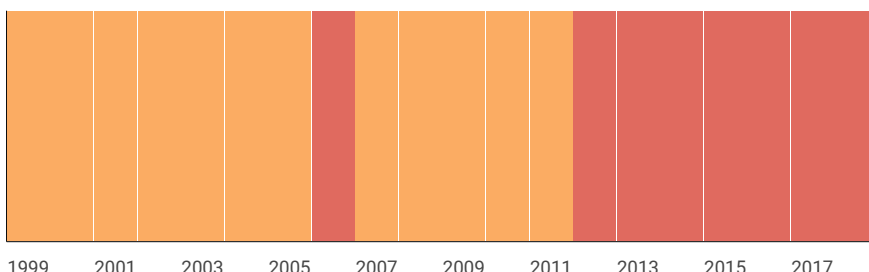
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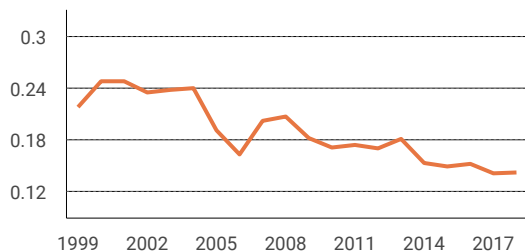
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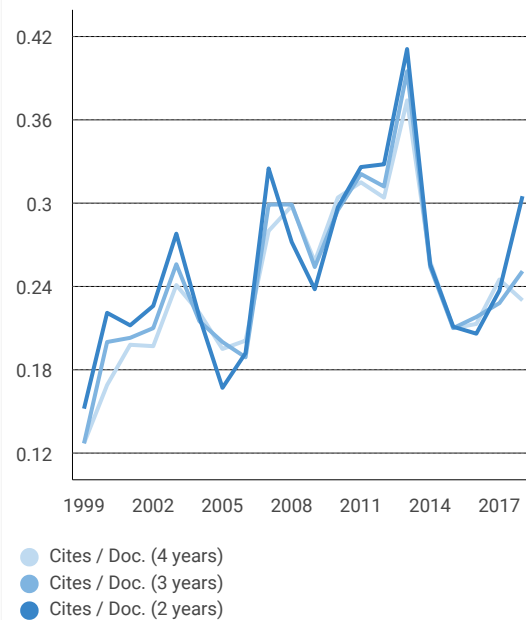
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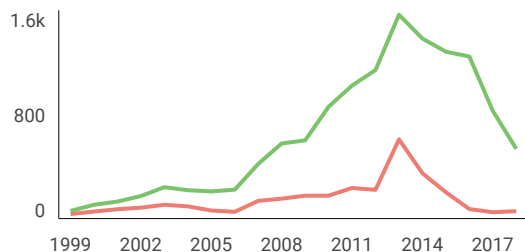
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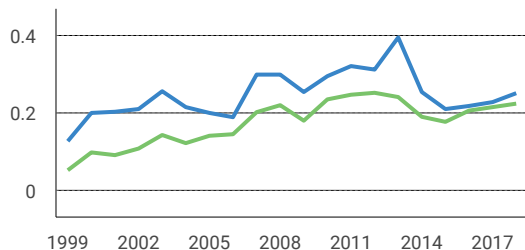
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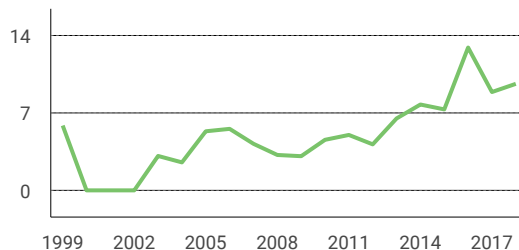
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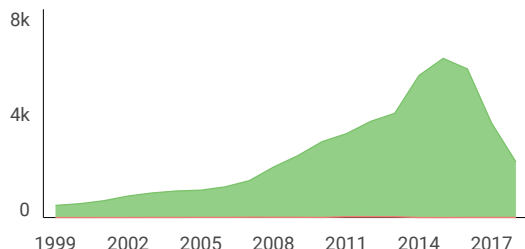
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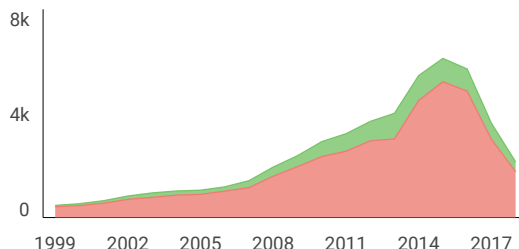
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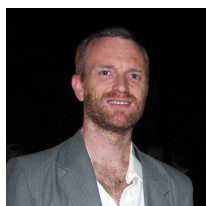


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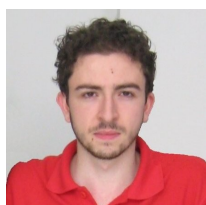


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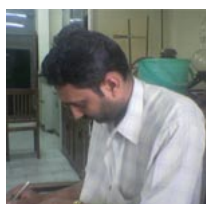


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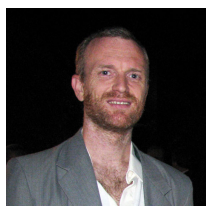


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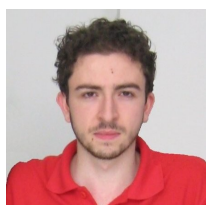


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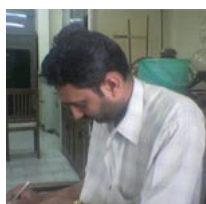


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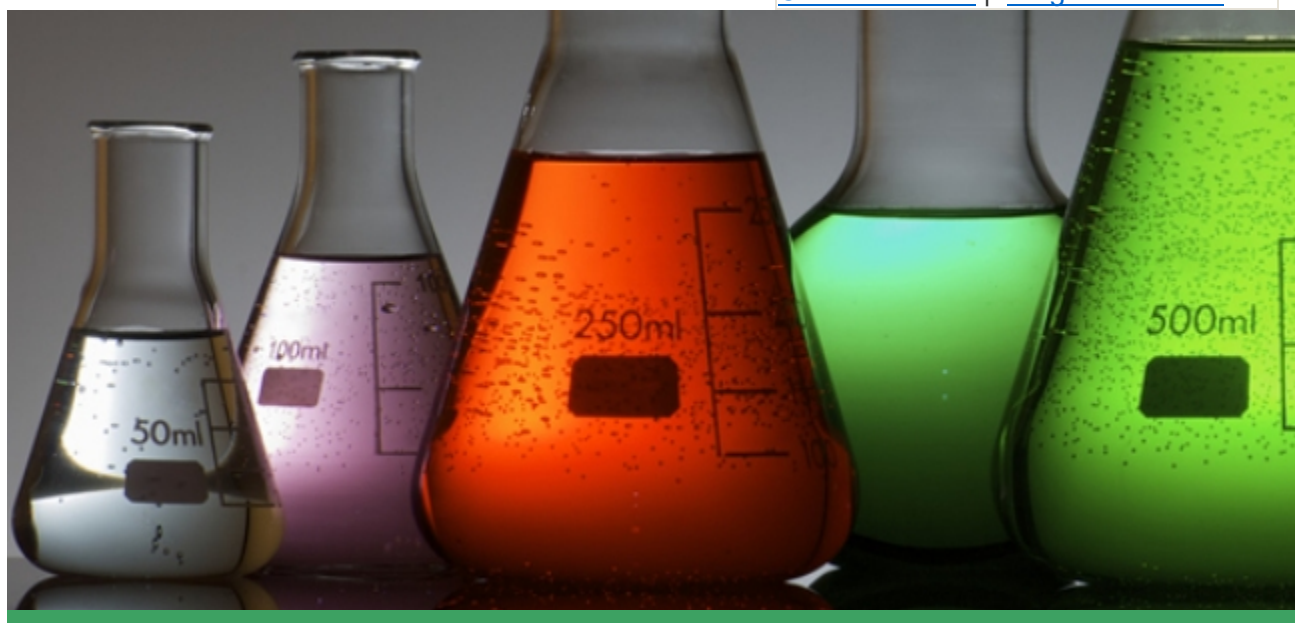
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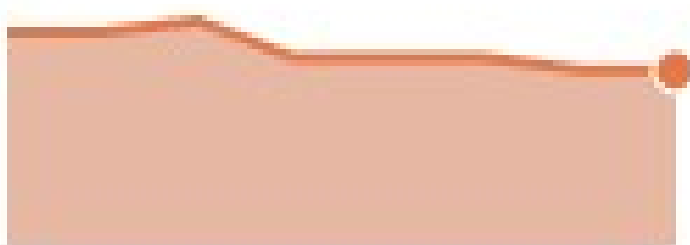
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